

Abstract of Disclosure

A method and apparatus to allocate resource capacity within an interconnect device in accordance with a resource allocation table (e.g., a priority list) facilitate identification of a resource consumer to be allocated a portion of the resource capacity in an efficient manner. The resource allocation table stores a number of allocation entries indicating an allocation of the resource capacity to a number of resource consumers (e.g., virtual lanes). A ranking vector corresponding to a first allocation entry within the allocation table is retrieved. A pending request vector, indicating for which of the plurality of resource consumers a resource request is pending, is generated. A selected resource consumer to consume at least a portion of the resource capacity is selected, the selection being performed utilizing the ranking vector and the pending request vector. The ranking vector is derived from the resource allocation table and comprises a list of resource consumers of the plurality of resource consumers, the list being ordered in accordance to an order of appearance of a first allocation entry for a respective resource consumer within the resource allocation table.